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Immunohistochemical demonstration of thyrotropin (TSH)-receptor in normal and diseased human thyroid tissues using monoclonal antibody against recombinant human TSH-receptor protein. Mizukami Y et al. *J Clin Endocrinol Metab.* (1994)

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- [Thyrotropin \(TSH\) receptor antibodies \(TSHrAb\) can inhibit TSH-mediated cyclic adenosine 3',5': monophosphate production in thyroid cells by either blocking TSH binding or affecting a step subsequent to TSH binding.](#)
Dallas JS, Cunningham SJ, Patibandla SA, Seetharamaiah GS, Morris JC, Tahara K, Kohn LD, Prabhakar BS.
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PMID: 6296219 [PubMed - indexed for MEDLINE]

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(("humans"[MeSH Terms] OR "humans"[All Fields]  
OR "human"[All Fields]) AND ("immunoglobulins"[MeSH Terms]  
OR "immunoglobulins"[All Fields] OR "antibody"[All Fields]  
OR "antibodies"[MeSH Terms] OR "antibodies"[All Fields]))  
AND "TSH receptor"[All Fields]
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antibody OR "antibody"[All Fields] OR "antibodies"[MeSH Terms] OR
"antibodies"[All Fields]
human "humans"[MeSH Terms] OR "humans"[All Fields] OR "human"[All
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(("humans"[MeSH Terms] OR "humans"[All Fields]  
OR "human"[All Fields]) AND ("immunoglobulins"[MeSH Terms]  
OR "immunoglobulins"[All Fields] OR "antibody"[All Fields]  
OR "antibodies"[MeSH Terms] OR "antibodies"[All Fields]))  
AND "TSH receptor"[All Fields] AND (inhibit[All Fields] AND  
("pharmacokinetics"[Subheading] OR "pharmacokinetics"[All  
Fields] OR "binding"[All Fields] OR "pharmacokinetics"[MeSH  
Terms] OR "binding"[All Fields])) AND (cAMP[All Fields] OR  
adenylate[All Fields])
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Translations:

"immunoglobulins"[MeSH Terms] OR "immunoglobulins"[All Fields]
antibody OR "antibody"[All Fields] OR "antibodies"[MeSH Terms] OR
"antibodies"[All Fields]
human "humans"[MeSH Terms] OR "humans"[All Fields] OR "human"[All
Fields]
"pharmacokinetics"[Subheading] OR "pharmacokinetics"[All Fields]
binding OR "binding"[All Fields] OR "pharmacokinetics"[MeSH Terms] OR
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Characterization of monoclonal antibodies to the human thyrotropin receptor.

Marion S, Ropars A, Ludgate M, Braun JM, Charrière J.

INSERM U.283, Hôpital Cochin, Paris, France.

We have produced four monoclonal antibodies (mAbs), 34A, 49G, 11E7, and 12E3, which bind the human TSH receptor (hTSH-R) when expressed on a human thyroid cell line (GEJ), freshly dissociated human and murine thyroid cells, or Chinese hamster ovary cells stably transfected with the hTSH-R gene. These mAbs were obtained after immunization of DBA/1 mice with affinity-purified TSH-binding sites from GEJ cells. Biochemical studies, including sodium dodecyl sulfate-polyacrylamide-gel electrophoresis, Western blot, and immunoprecipitation of solubilized GEJ cell membranes or human thyroid cells showed that most of the mAbs recognized two bands: one located at 46-48 kilodaltons and the other at 86-88 kilodaltons. Inhibition of [125I] hTSH binding to solubilized porcine membranes (TSH-receptor auto-antikörper assay) or Chinese hamster ovary cell membranes previously transfected with hTSH-R gene showed that mAb 34A recognizes the hTSH-binding site of both receptors. In contrast, mAbs 49G, 11E7, and 12E3 recognize a structure located near the hTSH-binding site. Lastly, the ability of these mAbs to stimulate murine thyroid function was investigated by measuring cAMP production and iodide accumulation. The 34A mAb, which fully competes with [125I]TSH for binding to hTSH-R, was able to induce both functions. Conversely, the 12E3 mAb, which was the least potent inhibitor of [125I]TSH binding to hTSH-R-transfected cells had no effect. A relationship was, therefore, established between the capacity of mAb to hTSH-R to inhibit [125I]hTSH binding and their ability to induce thyroid functions.

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